CW#106&HW#106: SA of Prims/Cyl. Pt II

Geometry  
Due: Friday April 1st

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Failure to show all work will result in a LaSalle! Round all answers to 2 decimal places.

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| a) Draw the net of the cylinder and label all given dimensions.     b) Find the surface area of the prism. Round your answer to two decimal places. | a) Draw the net of the prism and label all given dimensions.  .      b) Find the surface area of the prism. Round your answer to two decimal places. |
| 1. Find the surface area of the prism. | 1. Find the surface area of the cylinder. |
| 1. Find the surface area of the cylinder.  ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%204.54.45%20PM | 1. Find the surface area of the square prism.   ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%204.54.49%20PM |
| 1. Juan’s family is putting a pool in his backyard. The contractor digging for and building the pool needs to figure out how much lining he will need before starting to pour the concrete. If the pool is going to be 12 feet wide, 24 feet long, and 5 feet deep, how many square feet of liner will he need? | 1. A boxing company has 50 ft2 of cardboard. They need to build a box with a height of 2ft, a width of 3ft, and a base that measures 4ft. Do they have enough cardboard to build the box? *Explain* your answer in at least 1 complete sentence. |
| 1. PROBLEM SOLVING TASK Ms. Ramos and Ms. Mitrovich are painting the outside of a brand new noble campus building. The front of the building is 50 ft. wide and 20 ft tall. The whole building is 100 ft. long. The front of the building has 1 door that is 5 ft wide and 9 ft tall. The longest sides of the building have 9 windows that are each 3 ft wide and 4 feet tall. How much paint, in liters, do they need if 1 liter of paint = 1 square ft. | |

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| a) Draw the net of the prism and label all given dimensions.      b) Solve for *x*, given that the surface area is 142 ft2. Round your answer to two decimal places | 1. Draw the net of the cylinder and label all given dimensions. 2. Solve for *x*, given that the surface area is 326.73 cm2. Round your answer to two decimal places |
| 1. Solve for x if the surface area of the cylinder is 1005 cm2 ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.11.12%20PM   *x* | 1. Solve for x if the surface area of the prism is 342 m2. ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.29.54%20PM |
| 1. Solve for x if the surface area of the prism is 120 ft2. ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.29.44%20PM | 1. Solve for x if the surface of the cylinder is 904 cm2.  ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.29.51%20PM |
| 1. Solve for x if the surface area of the prism is 228 m2. ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.29.39%20PM%2 | 1. Solve for x if the surface area of the prism is 408 in2. ../../../../../Desktop/Screen%20Shot%202016-03-26%20at%205.29.32%20PM |
| 1. Jonathan is building a sand box for his little cousins. He has enough plywood to cover a total of 550 ft2. If he wants the sandbox to be 11 ft long and 8 ft wide, how deep should he plan on building the sandbox? Explain your answer in at least 1 sentence. | 1. Dalia has a present she wants to wrap. She has a roll of 100 in2 of wrapping paper. Find the dimensions of least 2 different boxes with that can be perfectly wrapped (no wrapping paper left over!) with the amount of wrapping paper Dalia has. Show all work. |